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PATENT
Attorney Docket 678-362(P8931)

In re application of: KIM, et al.

Serial No.: 09/405,328

Group: Art Unit 2684

Filed: September 24, 1999

Examiner: Le Lana N.

Date: July 25, 2002



For: **APPARATUS AND METHOD OF SEARCHING
FOR PN SEQUENCE PHASE IN MULTI CARRIER
CDMA MOBILE COMMUNICATION SYSTEM**

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Assistant Commissioner for Patents
Washington, D.C. 20231
Attn: Box Non Fee Amendment

AMENDMENT TRANSMITTAL FORM

Sir:

Transmitted herewith is an amendment in the above-identified application.

- ☐ Small entity status of this application under 37 C.F.R. § 1.9 and 1.27 has been established by a verified statement previously submitted.
- ☐ A verified statement to establish small entity under 37 C.F.R. § 1.9 and 1.27 is enclosed.
- ☒ No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1)		(Col. 2)		(Col. 3)	SMALL ENTITY		OTHER THAN SMALL ENTITY
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR		PRESENT EXTRA	RATE	ADDIT. FEE	OR RATE ADDIT. FEE
TOTAL	18	MINUS	20	=		X 9	\$	X 18 \$ 0
INDEP.	3	MINUS	3	=		X 44	\$	X 84 \$ 0
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM						X 135	\$	X 280 \$
						TOTAL		OR TOTAL \$ 0
						ADDIT. FEE	\$ 0	

* If the entry in Co. 1 is less than entry in Col. 2, write "0" in Col. 3.

** If the "Highest No. Previously Paid for" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest No. Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The Highest No. Previously Paid For* (Total or indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postpaid in an envelope, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231 on July 25, 2002

Dated: July 25, 2002

Barbara Evers


☐ Please charge Deposit Account No. 04-1121 in the amount of \$_____. Two (2) copies of this sheet are enclosed.

☐ A check in the amount of \$0 is enclosed.

☒ Please charge any deficiency as well as any other fee(s) which may become due under 37 C.F.R. § 1.16 and/or 1.17 at any time during the pendency of this application, or credit any overpayment of such fee(s) to Deposit Account No. 04-1121. Also, in the event any extensions of time for responding are required for the pending application(s), please treat this paper as a petition to extend the time as required and charge Deposit Account No. 04-1121 therefor. **TWO (2) COPIES OF THIS SHEET ARE ENCLOSED.**

Respectfully submitted,

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Attorney for Applicant



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PATENT APPLICATION
Attorney Docket No.: 678-362 (P8931)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): KIM, et al.

GROUP ART UNIT: 2684

APPLICATION NO.: 09/405,328

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RESPONSE

Sir:

In response to the Office Action of the United States Patent and Trademark Office dated April 25, 2002, please consider the following amendments and remarks.

AMENDMENTS

IN THE CLAIMS:

Please cancel Claims 2 and 8, without prejudice.

Please accept rewritten Claims 1, 3, 4, 7, 9, 10 and 11 as follows:

1. (Amended) A PN sequence phase searching apparatus in a multi-carrier CDMA mobile communication system, comprising:
- at least two PN sequence phase searchers for searching for the PN sequence phase of one of at least two different band input signals using different assigned search conditions and for outputting PN phase and energy information; and
 - a controller for assigning said different search conditions to said at least two PN

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Barbara Evers
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